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FIVE-DAY DOSING OF SYNTHETIC EXENDIN-4 (AC2993) IN PEOPLE WITH TYPE 2 DIABETES REDUCES POST-PRANDIAL GLUCOSE, **GLUCAGON AND TRIGLYCERIDE CONCENTRATIONS**

O. Koltermen, A. Gottlieb, E. Geines, M. Finemen

San Diego, CA, USA

Reckground and Alms: We evaluated the safety, tolerability, and efficacy of synthetic eccendia-4 (AC2993) in 24

patients with type 2 diabetes (DM2) previously costed with diet, oral hypoglycomic agents (OHA), or insulin in a single-blind, placebo controlled, two-period crossover study.

Materials and Methode: 14 days prior to endomization, OHA though was stopped and subjects using insulin were studied on a single be NPH injection. Each patient was maderials to receive submanascus (SC) injections BID (7:00 and 17:00 hrs) of placebe (FBO) or 0.1 parts; AC2993 for 5 days. Fellowing a 2-3 day washoot, subjects were crossed over to the other testiment. Florms glucose (PG), glucages and serum triglycaride (TG) concentrations were excessed facting and in response to a 7 Koaling Sustace10 most administered at the time of the morning AC2993/PBO injection on days I and 5.

AC2993/PBO injection on days 1 and 5.
Results: Reported adverse events, ECG, physical exam, and earlity isb monitoring revealed no safety issues. Nausea and ventiting were the most frequent adverse events; however all were reported as said in intensity. Postprandial circulating PG, gineagon, and TGs were significantly reduced following AC2993 compared to PBO on both days 1 and 5. On day 5, the 5-hour time-weighted mean ± SE change in PG from baseline fasting values was -7.7 ± 5.1 mg/dL for AC2993 compared to 67.2 ± 7.9 mg/dL for PBO, (P < 0.0001). The 3-hr postprandial planma glucagon AUC was reduced by 25% compared to PBO (P = 0.0123) and the rise in postprandial TGs was suppressed as evidenced by a 24% reduction in path postprandial TG concentrations compared to PBO (P = 0.0001). Cenclusiess: 0.1 µg/kg AC2993 BID for 5 days in patients spanning the spectrum of type 2 disbetes identified no safety issues, reduced circulating postprandial planma glucagon and triglyceride concentrations.

Clinical disbetes

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